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Application No. 10/035636
Amendment dated November 6, 2006
Advisory Action of October 12, 2006 and
Request For Continued Examination filed herewith

Docket No.: 013208.0121PTUS

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A method for generating an encryption key for use with a host device having a host identification that is exclusive to said host device and stored therein, for encrypting a file, which comprises a plurality of blocks of plaintext data, in a manner that said encrypted file can only be decrypted by said host device, the method comprising:

retrieving the host identification from the host device for use as a private portion of an encryption key exclusive to one and only one said host device;

generating at least one content variable as a public portion of said encryption key, where said at least one content variable uniquely identifies a corresponding block of said file;

combining the host identification and the at least one content variable to produce the encryption key;

encrypting a block of plaintext data using the encryption key to produce a block of ciphertext that can only be decrypted by said host device;

appending only the at least one content variable to the block of ciphertext; and

storing the block of ciphertext and the appended one or more content variable within a storage device.

2. (Previously presented) The encryption key generation method of claim 1 wherein said step of combining comprises:

using a predetermined method, wherein combining the host identification and the at least one content variable repeatedly produces the same encryption key.

3. (Previously presented) The encryption key generation method of claim 1, wherein the host device includes a secure clock, the method further comprising:

obtaining a time variable from the secure clock within the host device;

combining the host identification, the at least one content variable and the time variable to produce the encryption key.

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4. (Currently amended) A method for generating an encryption key to encrypt a block of plaintext for use with a host device having a secure clock and a host identification that is exclusive to said host device, assigned thereto and saved therein, the method comprising:

retrieving the host identification from the host device for use as a private portion of an encryption key exclusive to one and only one host device;

generating a content identification, wherein the content identification corresponds to the block of plaintext as a public portion of said encryption key;

obtaining a time variable from the secure clock within the host device;

combining the host identification, the content identification and the time variable to produce the encryption key that is exclusive to one and only said host device.

5. (Currently amended) A method for encrypting a block of plaintext for transmission over an unsecured interface to a storage device, for use with a host device having a host identification that is exclusive to said host device, assigned thereto and stored therein, the method comprising:

retrieving the host identification from the host device for use as a private portion of an encryption key exclusive to one and only one host device;

generating at least one content variable as a public portion of said encryption key, where said at least one content variable uniquely identifies a corresponding block of said file;

combining the host identification and the at least one content variable to produce an encryption key;

encrypting the block of plaintext using the first encryption key to produce a block of ciphertext that can only be decrypted by said host device;

appending the at least one content variable to the block of ciphertext;

transmitting the block of ciphertext and the appended at least one content variable over the unsecured interface to the storage device; and

storing the block of ciphertext and the appended one or more content variables within the storage device.

6. (Previously presented) The method of encrypting the block of plaintext of claim 5, wherein the host device further comprises a secure clock, the method further comprising:

obtaining a first time variable from the secure clock within the host device;

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combining the host identification, the at least one content variable and the first time variable to produce an encryption key.

7. (Previously presented) The method of encrypting the block of plaintext of claim 6, for further use decrypting the block of ciphertext, the method comprising:

- retrieving the stored block of ciphertext and the appended at least one content variable from the storage device;

- retrieving the host identification from the host device;

- obtaining a second time variable from the secure clock within the host device;

- combining the host identification, the at least one content variable and the second time variable to produce a second encryption key, wherein if the first time variable and the second time variable do not match, the second encryption key will not decrypt the block of ciphertext and if the first time variable matches the second time variable the second encryption key will decipher the block of ciphertext.

8. (Previously presented) The method of encrypting the block of plaintext of claim 5 for further use decrypting the stored block of ciphertext, the method comprising:

- retrieving the stored block of ciphertext and the appended at least one content variable from the storage device;

- retrieving the host identification from the host device;

- combining the host identification and the at least one content variables to produce the encryption key that was used to encrypt the file; and

- decrypting the block of ciphertext with the encryption key to produce the block of plaintext.

9. (Previously presented) The encryption key generation method of claim 3 further comprising:

- retrieving the stored block of ciphertext and the appended at least one content variable from the storage device;

- retrieving the host identification from the host device;

- obtaining a second time variable from the secure clock within the host device;

- combining the host identification, the at least one content variable, and the second time variable to produce a second encryption key, wherein if the first time variable and the second time

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variable do not match, the second encryption key will not decrypt the block of ciphertext; and if the first time variable matches the second time variable, the second encryption key will decipher the block of ciphertext.

10. (Currently amended) The encryption key generation method of claim 1 further comprising:

retrieving the stored block of ciphertext and the appended at least one content variable from the storage device;

retrieving by the host device the host identification from the host device;

combining the host identification and the at least one content variable to produce the encryption key that was used to encrypt the file; and

decrypting the block of ciphertext with the encryption key to produce the block of plaintext data.

11. (Previously presented) The encryption key generation method of claim 5 wherein said step of combining comprises:

using a predetermined method, wherein combining the host identification and the at least one content variable produces the same encryption key each time the encryption key generation process is executed.